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candidate substance under conditions effective to allow aggregated amyloid formation; and

- D1 Cont.*
- (b) determining the ability of said candidate substance to inhibit the aggregation of the [mammalian] aggregate-prone amyloid protein.

D2

4. (Amended twice) The method of claim 1, wherein the [mammalian] aggregate-prone amyloid protein is a chimeric protein.

Please add the following claims:

bleach 10/28/08

A method of identifying a candidate substance that inhibits mammalian aggregate-prone amyloid proteins from forming a fibril, comprising:

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(a) contacting a yeast cell that expresses an aggregate-prone amyloid protein comprising a mammalian aggregate-prone amyloid peptide with the candidate substance under conditions effective to allow fibril formation; and

(b) determining the ability of said candidate substance to inhibit the aggregate-prone amyloid protein from forming a fibril.

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39. The method of claim 38, wherein the aggregate-prone amyloid protein comprises a PrP or β -amyloid polypeptide.

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40. The method of claim 38, wherein the aggregate-prone amyloid protein is a chimeric protein.--